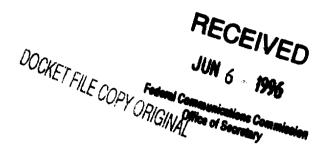
1275 Pennsylvania Avenue, N.W., Suitr 400 Washington, D.C. 20004 (202) 383-6416



EX PARTE OR LATE FILED

June 6, 1996



EX PARTE

William F. Caton Acting Secretary Federal Communications Commission Mail Stop 1170 1919 M Street, N.W., Room 222 Washington, D.C. 20554

Dear Mr. Caton:

Re: CC Docket No. 95-116, Number Portability

Dan Trangon

Please associate the attached material with the above-referenced docket.

We are submitting two copies of this notice in accordance with Section 1.1206(a)(1) of the Commission's Rules.

Please stamp and return the provided copy to confirm your receipt. Please contact me should you have any questions or require additional information concerning this matter.

Sincerely,

cc: Mindy Littell

No. of Copies rec'd O+/ List ABCDE To:

A. F. Ciamporcero

From: Date: J. M. Abercrombie June 4, 1996

Subject:

Response to Mindy Littel, Common Carrier Bureau

Pursuant to the request from Mindy Littel of the Common Carrier Bureau, I have attached a the cost comparison of Query on Release to AT&T's LRN proposal for local number portability (LNP). This information was filed on June 3, 1996 before the California Public Utilities Commission in compliance with an Administrative Law Judges Ruling dated May 30, 1996 in R.95-04-043 and I.95-04-044. The cost comparison demonstrated that for Pacific Bell, QoR is significantly less expensive than AT&T's LRN by between \$45 million to \$71 million, dependent upon the percentage of ported numbers.

We have estimated that LRN will cost approximately \$529 million in Capital and Expense, with an additional Expense of between \$198 million and \$344 million to recognize the Churn costs caused by Number Portability. Therefore the identified cost of LRN is between \$727 million and \$873 million, assuming between 20% to 40% ported numbers. Further, costs associated with the start-up and ongoing administration of the Regional SMS are not yet developed, and are expected to be substantial. And the real time impacts on switches is still under investigation. As further analysis is completed, additional costs are anticipated to be identified.

The costs for QoR are estimated at between \$458 million and \$484 million for the Capital and Expense associated with its development and implementation. Further, the costs of Churn, identified above would be common to QoR, as it is for LRN. Therefore the total cost of QoR, identified to date, exclusive of the Regional SMS or real time switch impact is estimated to be between \$656 million and \$828 million, assuming between 20% to 40% ported numbers.

A significant portion of the expense (over half) associated with the development and implementation of LNP is associated with modifications, replacement and development of Operational Support Systems to directly support any form of LNP, whether it be QoR or LRN. Pacific has identified over 33 initial systems that will be significantly impacted by LNP. I have attached a list and description of those systems impacted. It is worth noting that LNP will cause critical systems, such as COSMOS and PREMIS to need to be replaced, due to current capacity limitations.

New entrants to the local exchange market have been purposely trying to downplay the high costs of LNP and the impact to operational systems. As demonstrated in the Cost Comparison, the costs for LNP are significant and the costs of QoR are less than LRN. Further, the impact to operational support systems can not be ignored. The development and implementation of LNP is not cheap, nor can it be accomplished quickly or easily.

Should you have any other questions, I am available on (510) 823-1174.



Cost Comparison & Implementation Timeline

QoR vs. LRN

California Local Number Portability Task Force

May 31, 1996

Query on Release is significantly less expensive than LRN



- 20% Porting
 - \$71 Million less than LRN
- 30% Porting
 - \$58 Million less than LRN
- 40 % Porting
 - \$45 Million less than LRN

Preliminary costs have been identified for QoR and LRN, but they are <u>not</u> all-inclusive



Costs Included

- Capital
- Expense
 - Repair
 - Maintenance
 - Administrative
 - Systems Development
 - Billing
 - LIDB
 - Misc. STP Expense
 - VAS System
- Churn

Costs Excluded

- Regional SMS
 - Start-up/Ongoing
- Real time impacts on switches still under investigation
- Additional costs continue to be identified

Capital and associated Expense are the key drivers of cost differences between QoR and LRN



Costs that vary by architecture

- Capital
- Expense
 - Repair
 - Maintenance
 - Administrative
 - Misc. STP Expense
- Real time impacts on the switches still must be identified

Costs common to QoR and LRN

- Expense
 - Systems Development
 - Billing
 - LIDB
 - VAS System
- Churn

QoR is \$71 Million Less Than LRN over 5 yrs with 20% ported numbers



LRN		QoR (CONTRACTOR)	
Capital	\$314 Million	Capital	\$259 Million
Expense	\$215 Million	Expense	\$199 Million
Subtotal	\$529 Million	Subtotal	\$458 Million
Churn (Net)	\$198 Million	Churn (Net)	\$198 Million
Total	\$727 Million	Total	\$656 Million

^{*} Ongoing administration and transactional costs of SMS and SMS Queries not included. Real time impacts on switches not yet available. Additional costs continue to be identified.

QoR is \$58 Million Less Than LRN over 5 yrs with 30% ported numbers



LRN		QoR g	
Capital	\$314 Million	Capital	\$269 Million
Expense	\$215 Million	Expense	\$202 Million
Subtotal	\$529 Million	Subtotal	\$471 Million
Churn (Net)	\$322 Million	Churn (Net)	\$322 Million
Total	\$851 Million	Total	\$793 Million

^{*} Ongoing administration and transactional costs of SMS and SMS Queries not included. Real time impacts on switches not yet available. Additional costs continue to be identified.

QoR is \$ 45 Million Less Than LRN over 5 yrs with 40% ported numbers

PACIFIC BELL

A Pacific Telesis Company

(\$000) LRN		(\$000) QoR	
Capital	\$314 Million	Capital	\$279 Million
Expense	\$215 Million	Expense	\$205 Million
Subtotal	\$529 Million	Subtotal	\$484 Million
Churn (Net)	\$ 344 Million	Churn (Net)	\$344 Million
Total	\$ 873 Million	Total	\$828 Million
		The state of the s	

^{*} Ongoing administration and transactional costs of SMS and SMS Queries not included. Real time impacts on switches not yet available. Additional costs continue to be identified.

Implementation Timeline

Cost recovery for LNP should be determined prior to ordering implementation timeline



- While switch software may become available in mid to late 1997, development and implementation of modifications, replacement and/or new operational support systems are required prior to the implementation of LNP
 - Operational Support Systems will not be available until 4th Quarter 1998
 - » Assumes critical systems are available for ETE testing
 - » Based upon today's understanding of LNP processes
 - » Requirements must be developed
 - Pacific Bell will <u>not</u> employ manual, or "blue line" work arounds
 - » Mechanized processes will be required
- Pacific will attempt to further expedite the timeline for OSSs, if possible, to facilitate implementation of overlays in the 415 and 916 NPAs, in 2Q98 and 4Q98, respectively

Significant modifications, replacement and development is required to Operational Support Systems to directly support any form of LNP ... QoR or LRN



• Bellcore Systems Impacts

- CCRS
- CCSN
- COSMOS Replacement
- Exchange Plus
- DEPS
- LIDB
- LFACS
- MARCH (TM)
- NMA-F
- NSDB
- PREMIS Replacement
- SOAC
- TIRKS WFA

• Pacific Bell New Systems

- NAA
- AP

This list is not all inclusive. Billing Systems impacts are not included. Service Order interface to Regional SMS and local SMS development must be considered

Pacific Bell System Impacts

- AMOS
- APTOS
- CESAR
- CLC
- CSFT
- CSTAR
- FIRST
- FWS
- ORGIS
- PBITS
- PBVS
- SORD

Other Vendor Systems

- LMOS
- IPMS
- MLT
- Predictor
- Starwriter

Ordering, Provisioning, and Service Assurance

Belicore Systems Impact:

CCRS - Centrex Customer Rearrangement System

CCSN - Customer Contact Services Node

COSMOS (capacity limited, replacement) - Computer System for Mainframe Operations

EXCHANGE PLUS

FEPS - Facility & Equipment Planning System

LIDB - Line Identification Data Base

LOMS - LAC (Loop Assignment Center) Operations Management System

LFACS - Loop Facilities Assignment & Control System

MARCH(TM) - Memory Activate/Assignment Recent Change Host

NMA-F: Network Monitoring and Analysis Facilities

NSDB - Network Services Data Base

PREMIS (replacement) - Premises Information System

SOAC - Service Order Analysis & Control

TIRKS - Trunk Information Record Keeping System

WFA - Work Force Administration

Pacific Bell Systems Impact:

AMOS - Access Mechanized Order System

APTOS - Automated Pricing, Terminals Options and Services

CESAR - Customer Enhanced System for Access Requests

CLC (entry system, TBD)

CSFT - Customer Services Feature Translator

CSTAR - CSC Smart Tools Auto Resolver

FIRST - FACS Internal Resolution System Technology

FWS - Frame Work Station

ORGIS - Order Repository Generation and Implementation System

PBITS - Pacific Bell ISDN Testing System

PBVS - Pacific Bell Verification System

SORD (edits for NXX) - Service Order Retrieval & Distribution

Pacific Bell New Systems Impact:

NAA - Number Assignment and Administration

AP - Application Platform

Other Vendor Systems:

LMOS (Lucent) - Loop Maintenance Operating System

IPMS - Integrated Process Management System

MLT - Mechanized Loop Test

Predictor - A service assurance system which tests twisted pair.

Starwriter - Order entry system for single line residence service

- Service Order Interface to the Regional SMS (Unknown)
- Local SMS development

Does not include Billing Systems impacted

Ordering, Provisioning, and Service Assurance

Bellcore Systems:

- CCRS: Centrex Customer Rearrangement System Provisioning Provides Centrex customers the ability to make their own rearrangements. (e.g., TN swaps)
- CCSN: Customer Contact Services Node Provisioning Provides call routing to Business Office and Repair Service for simple residence and small business customers.
- COSMOS: Computer System for Mainframe Operations Provisioning Primary source of telephone number (TN) assignment. Component of FACS (Facility Assignment and Control System).
- Exchange Plus: Ordering Assist service reps in the order negotiation process by providing them, on-line, with information about exchanges, directory, etc.
- FEPS: Facility and Equipment Planning System Provisioning Mechanized tool in planning and implementing the way network facilities and transmission equipment should be used by provisioning.
- LIDB: Line Identification Data Base Validation Performs validation of calling card services for both Pacific Bell customers and some IEC customers (InterLATA).
- LFACS: Loop Facilities Analysis Control System Provisioning Component of FACS (Facility Assignment and Control System). Assigns and inventories local loop outside plant (cable, etc.)
- LOMOS: LAC (Loop Assignment Center) Operations Management System Provisioning Tracks and creates work packages of RMAs (Request for Manual Assistance) in MLACs (Mechanized Loop Assignment Center). Tracks service order activity.
- MARCH: (was Mechanized Activate/Assignment Recent Change Host) Provisioning System communicates with the switch; converts USOCs and FIDs to switch language. Tracks and provisions pending service orders.
- NMA-F: Network Monitoring and Analysis Facilities Service Assurance Monitoring, surveillance, and analysis of network transport elements.
- NSDB: Network Services Database Provisioning Data layer building block which provides a shared corporate database for Operations Support Systems. It provides an end-to-end view of the circuit data.
- PREMIS: Premises Information System Provisioning Database information retrieval system used for Service Order negotiation. Prime source of spare TNs, street address validation, status of service and available TN assignment information for residence and small businesses.
- SOAC: Service Order Analysis & Control Provisioning Primary controlling component of FACS. Contains the Service Order until it is complete and purged from the database.

Ordering, Provisioning, and Service Assurance

- TIRKS: Trunks Integrated Record Keeping System Provisioning Manages the inventory, design, engineering and planning of the interoffice network.
- WFA/C: Work Force Administration Control Provisioning Maintains line record data for customer services. Provides trouble ticket handling for Special Services Centers.

Pacific Bell Systems:

- AMOS: Access Mechanized Order System Provisioning Provides work force administration for Special Service and HICAP design, testing and installation work groups.
- APTOS: Automated Pricing, Terminals Options and Services Ordering APTOS performs many sales support functions, (e.g., pricing, configurations, circuit ID, etc.)
- CESAR: Customers' Enhanced System for Access Requests Ordering Allows common carriers (e.g., ATT, MCI, Spring, etc.) to input their own service orders via a standard data dictionary.
- CLC entry system: Competitive Local Carrier entry system, TBD.
- CSFT: Customer Services Features Translator Provisioning Provisions features for ISDN (home and business), some features for P-Phones (electronic business sets) and SDS (small business customers).
- CSTAR: Customer Service Center Smart Tools & Auto Resolver Provisioning Automatic resolution of System (MARCH & PBVS) generated errors.
- FIRST: FACS Internal Resolution System Technology Provisioning Provides mechanized resolution of specific Requests for Manual Assistance (RMAs) within the FACS (Facility Assignment and Control System) system.
- FWS: Frame Work Station Provisioning an order delivery system for provisioning of non-designed services and local loop for message and special services designed orders.
- ORGIS (ISDN support): Order Repository and Generation System Ordering A front-end to SORD.
- PBITS: Pacific Bell ISDN Test System Provisioning & Service Assurance Performs mechanized ISDN Testing, digital loop test, line card verification, etc.
- PBVS: Pacific Bell Verification System Provisioning Verifies that a switch has been activated as requested in the service order.
- SORD: Service Order Retrieval and Distribution Ordering Mechanized on-line application which accepts, edits, stores, and distributes service order for installation and/or modification of telephone and related services.

Ordering, Provisioning, and Service Assurance

Pacific Bell New Systems (under development)

- NAA: Number Assignment and Administration system Ordering and Provisioning Provides a single corporate database for use in the assignment and administration of TNs.
- AP: Application Platform Provisioning Manages the provisioning of service requests for assembled circuits.

Other Vendor Systems:

- IPMS Integrated Process Management System Provisioning and Service Assurance Key functions are: order status and completion, trouble ticket status and closure, automatic billing to name a few.
- LMOS: Loop Maintenance Operating System Service Assurance and Provisioning Trouble reporting system for customer loop. (Lucent)
- MLT: Mechanized Loop Test Provisioning and Service Assurance Testing of copper loop facilities.
- Predictor: Service Assurance Has a circuit to every CO in the State. Test (overnight) twisted pairs to determine potential trouble.

Starwriter: Ordering - Order entry system for service reps to order residential service.